

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application:

LISTING OF CLAIMS

1. (currently amended) An aqueous mixture ready for application by an application device comprising:

1000 parts by weight water;

at least about 5 parts by weight of water soluble, hydroxyl group bearing polymer;

the aqueous mixture having viscosity measured under ambient conditions 15 minutes after mixing the soluble hydroxyl group bearing polymer with the water of less than about 500 centipoise and, when applied to a surface and allowed to dry, forms a substantially insoluble crosslinked polymer coating on the surface; and

wherein the water soluble hydroxyl group bearing polymer has been previously depolymerized.

2. (original) The aqueous mixture of claim 1 further comprising:

at least one crosslinking agent.

3. (original) A kit that when mixed with water creates the aqueous mixture of claim 2 comprising:

a dry composition including the water soluble, hydroxyl group bearing polymer;

and

a liquid composition including the at least one crosslinking agent.

4. (original) The aqueous mixture of claim 2 wherein the at least one crosslinking agent includes a sodium zirconium lactate crosslinking agent.

5. (original) The aqueous mixture of claim 2 wherein the at least one crosslinking agent includes glyoxal.

6. (original) The aqueous mixture of claim 1 having a viscosity less than about 200 centipoise and comprising:

at least about 10 parts by weight water soluble hydroxyl group bearing polymer.

7. (original) The aqueous mixture of claim 1 having a viscosity less than about 200 centipoise and comprising:

at least about 15 parts by weight water soluble hydroxyl group bearing polymer.

8. (canceled)

9. (currently amended) An aqueous mixture for hydraulic application to an aggregate surface that, when allowed to dry, forms a substantially water insoluble, crosslinked polymer on the aggregate surface, the aqueous mixture comprising:

1000 parts by weight water;

at least about 5 parts by weight of a previously depolymerized water soluble, hydroxyl group bearing polymer;

at least one crosslinking agent; and

the aqueous mixture having viscosity, 15 minutes after mixing the polymer into the water at a substantially ambient temperature, of less than about 500 centipoise.

10. (original) A kit that when mixed with water creates the aqueous mixture of claim 9 comprising:

a dry composition including the water soluble, hydroxyl group bearing polymer;
and

a liquid composition including the at least one crosslinking agent, wherein the liquid composition must be mixed with the water prior to mixing the dry composition with the water.

11. (original) The aqueous mixture of claim 9 wherein the at least one crosslinking agent consists of one or more of the group of crosslinking agents consisting of a sodium zirconium lactate crosslinking agent, a glyoxal crosslinking agent, a cationic amine polymer-epichlorohydrin adduct crosslinking agent, and a titanium chelate crosslinking agent.

12. (original) The aqueous mixture of claim 9 having a viscosity less than about 200 centipoise and further comprising:

at least about 10 parts by weight water soluble hydroxyl group bearing polymer.

13. (original) The aqueous mixture of claim 9 having a viscosity less than about 200 centipoise and further comprising:

at least about 15 parts by weight water soluble hydroxyl group bearing polymer.

14. (canceled)

15-18 (canceled)

19. (original) A hydroxyl group bearing polymer crosslinking mixture comprising:

glyoxal; and

a heavy metal based crosslinking agent;

wherein a weight ratio of glyoxal to the heavy metal based crosslinking agent is about 0.1 to about 1.5.

20. (original) The crosslinking mixture of claim 19 wherein the weight ratio of glyoxal to the heavy metal based crosslinking agent is about 0.4 to about 0.6.
21. (original) The crosslinking mixture of claim 19 wherein the crosslinking agent is an organic zirconate.
22. (original) The crosslinking mixture of claim 19 wherein the heavy metal based crosslinking agent includes more than one heavy metal based crosslinking agent.